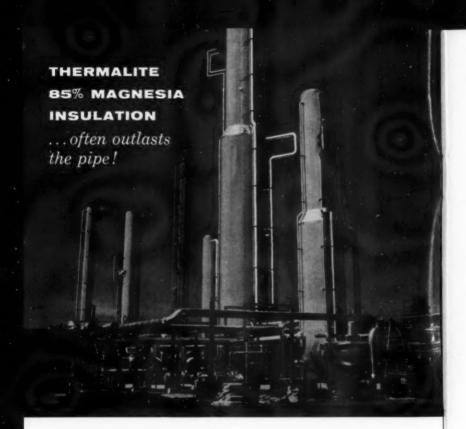
# ASBESTOS



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FEBRUARY 1959



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# "ASBESTOS"

FOUNDED IN JULY 1919 AND PUBLISHED MONTHLY SINCE THAT DATE

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#### REPORTS ON ASSOCIATION ACTIVITIES

#### 1. Asbestos Textile Institute

The Asbestos Textile Institute during 1958 continued to serve the affiliated members of the industry through its many committee activities; through the pursuance of projects of a promotional nature of interest to the industry in general and through its research activities conducted under a Fellowship Research program.

The general meetings of the Institute, held quarterly throughout the year, have provided an opportunity for representatives of this important industry to engage in discussions designed to improve present day materials and to consider new materials

to meet the ever exacting demands of industry today.

The Asbestos Textile Institute, during 1959, will be directed by a Board of Governors consisting of the following officers and members: J. T. Griffis, Southern Asbestos Company, President; A. J. Scanlan, American Asbestos Textile Corporation, Vice President; W. S. Hough, Johns-Manville Corporation, Treasurer; J. A. Bettes, Raybestos-Manhattan, Inc.; T. C. McCluskey, Tallman-McCluskey Fabrics Company; and D. W. Widmayer, Keasbey & Mattison Company. Dr. M. C. Shaw serves the Institute as Executive Secretary, Assistant Treasurer and Director of Research.

Much of the work of the Institute is carried out through the functioning of five committees, each of which is interested in a

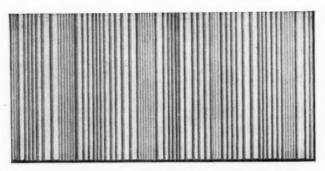
different phase of the industry.

The Air Hygiene and Manufacturing Committee is under the chairmanship of A. E. May, Keasbey & Mattison Company and through efforts of this group many notable accomplishments and contributions have been made related to the improvement of hygienic and operating conditions within the mills of the industry.

The Sales Promotion Committee under the chairmanship of J. A. Brown, Jr., Raybestos-Manhattan, Inc., has been very active and among other accomplishments, was responsible for the initiation of the Seal of Membership Program which was established

to publicize the Institute and its activities.

The Technical Committee under the chairmanship of Edward Beale, Johns-Manville Corporation, has continued to provide membership with much technical information and has been active in the clarification of specifications used by industry and





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Federal agencies in the procurement of asbestos textile materials.

The Fibre Committee under the chairmanship of Mr. J. A. Marcotte, Asbestos Corporation, Ltd., has served to keep the

industry advised as to the fibre availability situation.

The fifth committee, known as the Fibre Testing Committee, is a new activity within the Institute having been established during 1958 and C. R. Hutchcroft was selected to direct the work of this group. It is the purpose of this committee to evaluate and, if and when necessary, devise new methods or techniques whereby the characteristics and properties of asbestos fibres may be determined. Through a cooperative effort with Quebec Asbestos Miners Association and Asbestos-Cement Products Association there is being affected an inter-industry approach to the problems involved.

The Fellowship laboratory under the direction of Dr. M. C. Shaw assists the several committees in their endeavors and also conducts a research program which is continually seeking out and investigating new products and new applications of present

day materials of interest to the industry.

The interests and activities of the Asbestos Textile Institute are continually being extended to cover the ever increasing fields of utilization wherein the products of our industry may find application. Through an industry-wide approach to the problems which are being encountered, the Institute provides an invaluable service for those member companies that cooperate in its endeavors.

It is with regret and a feeling of great loss that we report the death of two of our active members during 1958, Mr. B. W. Luttenberger and Dr. M. S. Maier, both employed by Raybestos-Manhattan, Inc., at Manheim, Pa., and both very active in the work of the Institute. The loss of these men will be sorely felt, however, their contributions to the asbestos industry through their active participation as members of the Institute will stand as living memorials to their dedicated efforts.

Dr. Myril C. Shaw, Secretary

# NATIONAL INSULATION MANUFACTURERS ASSOCIATION FORMED

The National Insulation Manufacturers Association has been formed by members of the industrial insulation industry of the United States at a recent meeting held in New York. Announcement was made by the President of the organization, E. H. Luchs

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GREAT BRITAIN ... A. A. BRAZIER & CO. (Asbestos) Ltd.,
"Avenue Lodge," Bounds Green Road,
LONDON, N 22

BELGIUM ..........JOS IDE & FILS, 23, rue Mareyde,
BRUSSELS (Woluwe St. Pierre)

GERMANY ........ERNST WERNER, Import von Rohasbest,
Katharinenstrasse 30, "Edmundhaus,"
HAMBURG II,

of the Mundet Cork Corporation.

The Association has been formed as a voluntary and unincorporated organization designed to render service to manufacturers of insulation for industrial and commercial use and to promote the welfare and development of the industrial insulation industry.

Officers of the Association include, Mr. Luchs, President; R. A. McLaughlin, Pittsburgh Plate Glass Co., Vice President; F. T. Christenson, Refractory and Insulation Corp., Treasurer,

and J. M. Barnhart, Executive Secretary.

Charter members of the Association include: Baldwin-Hill Company, Trenton, N. J.; M. H. Detrick Company, Chicago, Ill.; The Eagle-Picher Company, Cincinnati, Ohio; Ehret Magnesia Manufacturing Company, Valley Forge, Pa.; Fibreboard Paper Products Corp., San Francisco, Calif.; Forty-Eight Insulations, Inc., Aurora, Ill.; Gustin-Bacon Manufacturing Co., Kansas City, Mo.; Johns-Manville Sales Corp., New York N. Y.; Keasbey & Mattison Company, Ambler, Pa.; N. L. Morell, Bethlehem, Pa.; Mundet Cork Corp., North Bergen, N. J.; Owens-Corning Fiberglass Corp., Toledo, Ohio; Pittsburgh Corning Corp., Pittsburgh, Pa.; Pittsburgh Plate Glass Company, Pittsburgh, Pa.; Refractory and Insulation Corp., New York, N. Y.; The Ruberoid Company, New York, N. Y.; and Union Asbestos and Rubber Company, Bloomington, Ill.

1. Thermal Insulation Society

The Charleston Thermal Insulation Society held eight meetings in 1958, the subjects and speakers were as follows:

January — "Polystyrene as an Insulation Material"

> by Erling Burner, Dyfoam Corporation

February — "Special Problems Forum"

Moderator, A. R. Giles, Union
Carbide Chemicals Company

March — "When Insulation Goes Underground"

by Harry Rapp, Insul-Fil Division of Miracle Adhesive

April — Corporation
Film, "Our Mr. Sun"
Speaker, W. Holstein
C & P Telephone Company

May Film and Talk "Fire Tests of Insulations and Coatings" Speaker, D. H. Way, Union Carbide Chemicals Company September -Social Meeting Dinner and Dance October "New Developments in Reflective Insulation" Speaker, George Gronemeyer, Mirror Insulation Company November -Film, "Prefabrication of

November — Film, "Prefabrication of Thermal Insulation"
Speakers, E. C. Shuman,
Owens-Corning Fibreglass
Corporation
W. C. Turner, Union Carbide
Chemicals Company

The officers elected for the Charleston Chapter for 1958-1959 were as follows:

President—R. P. Jones, Union Carbide Chemicals Co. Vice Pres.—J. McLean, Protective Coatings Co. Secretary—N. Gordon, Baldwin Supply Co. Treasurer—H. O. Spangler, E. I. DuPont de Nemours

#### Board of Directors:

R. E. Estep, Baldwin Supply Co. W. R. Lickert, Asbestos and Insulating Co. W. C. Turner, Union Carbide Chemicals Co.

The National Thermal Insulation Society held a general

meeting at Madison, Wisconsin, October 14, 1958.

Featured at this meeting was the presentation of a movie "Prefabrication of Thermal Insulation" and a talk on this subject by Mr. E. C. Shuman of Owens-Corning Fiberglass Corporation.

A Directors' Meeting of the Society was held October 15 at which time the major discussion was means to organize more chapters and strengthen the National Organization.

Officers for the National Society are:

President—W. C. Turner, Union Carbide Chemicals

1st V. President—E. C. Shuman, Owens-Corning Fiberglass Corporation 2nd V. President—H. Porter, Pittsburgh-Corning Corp. Secretary—J. Bowes, E. I. DuPont de Nemours Treasurer—W. A. Michalsky, Rohm & Haas

Board of Directors:

W. Zane, E. I. DuPont de Nemours R. Thomas, West Virginia State Engineer L. Endicott, Union Carbide Chemicals Co. W. R. Lickert, Asbestos & Insulating Co. H. L. Pickel, Benjamin Foster Co.

This year the activities of the Philadelphia Chapter of the Thermal Insulation Society have been numerous and very effective. Under the presidency of Mr. H. L. Pickel, the officers and Board of Directors have had numerous meetings, developing

most effective plans for the year's work.

In addition to the regular committees, such as Program, Membership, Nominating, and Publicity, there has been a new committee added called the Handbook Committee. This Committee has a very valuable undertaking as its objective; namely, the publishing of a handbook for use of our membership and all others interested in thermal insulation. In this handbook will be four sections, all of which will be extremely valuable to those active in the insulation industry.

- 1. The Technical section—a few topics to be included are heat transfer theory and calculations, heat losses, economics, cements, mastics, glossary of terms.
- 2. Specifications—to include application specifications for heat, refrigeration, and condensation control. Fields to be examined in this are piping vessels, pumps, rectangular ducts, refrigeration space, underground systems, etc.
- 3. The Standards and Details section—to cover such items as insulation of flanges, valves, corrugated bellows, expansion and contraction joints, etc.

4. Contractual Matters— such as typical contracts, field measurement forms, method of measurement form, etc.

Each month there has been a meeting on some subject of vital interest in the insulation field, and attendance has been excellent. Anyone interested in learning more about this Society's activities can simply address it c/o Engineers' Club, 1317 Spruce Street, Philadelphia, Pa.



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#### GRADING CROCIDOLITE ASBESTOS

By W. E. Sinclair, M.I.M.M.

It is understandable that any upset of the balance in the economic law of supply and demand will cause concern in the production end of the asbestos industry, more especially when it takes the form of decreasing demands for some grades of "Blue." The catchword is "grades," because all this happened before, in

1953, when this bogle once again raised its head.

The urge for a system of standardized grading of the amphibole varieties of asbestos is usually forgotten once any recessional set-back is over, or it is explained away by the suggestion that in such an event asbestos simply follows the trend of industry in general, because of its intimate association with every branch of industry today. This is true enough, but non-theless, when the wheels of industry slow down consumers can afford to pick and choose, and the reduced quantities of asbestos required will naturally be that graded to standard specifications in preference to unknown or ungraded fibre.

Much has been done by private enterprise on some mines since the question was considered in 1953 and today there is a marked improvement in cleaning and grading crocidolite by many producers but, for the most part, it is only these producers themselves, and their own factories, that are familiar with the designation and characteristics of their individual fibre grades.

There are some producers who dispose of their output to other companies or agents or otherwise sell on the open market. Actually these independent producing mines, although small in terms of tonnage handled, number sixteen as against only six "mine-to-factory" companies. In the circumstances, it is obvious that the matter of grading is a majority need that should take a form of classification which can be generally recognized and accepted by the industry and by manufacturers in particular everywhere. Grading means an additional treatment cost to independent producers, a point that does not affect the producer-users since all they need are supplies of the graded asbestos and not a profit on production.

The practice of chrysotile asbestos grading and classification would surely serve as a basis on which to frame a uniform system of minor scope for crocidolite. The chrysotile system assumes a form of classification that is elaborate and extensive and at the same time straight-forward and positive. The system is



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Over 30 years of specialization in quality asbestos products

arranged to divide seven main groups of asbestos into upwards of twenty-five different mill grades. Standardization of the various grades is produced and maintained by regular testing on the Quebec Standard Testing Machine. (The Quebec Standard Testing Machine consists of a nest of 3 screens and a pan measuring 24½" x 14¾" x 4" deep, resting on a table which is movable and is driven by an eccentric rotating in a vertical plane at 328 r.p.m. Screen sizes are 2, 4, and 10 mesh respectively. A timing mechanism allows exactly 600 revs per test. Testing is done on a 16 oz. sample which is representative of the mill product. The sample is divided into four fractions by the machine and the weight of each fraction is recorded. These weights define the quantity of the various fibre lengths in the sample tested and in this manner establish a certain grade.) The designation of each standard grade is universally recognized no matter whence the source.

In actual fact many of the crocidolite mines in South Africa use the "Quebec" machine as a means of maintaining a measure of strict uniformity in their own grades for shipment. It is, in fact, a form of quality centrol on grading. It is interesting to note that the use of the machine at all has quite upset the preconceived idea that the harsh texture of crocidolite fibres was physically unsuitable for testing by this means, because the results would be variable and misleading. This idea really stemmed from the early days of "Blue" treatment when milling. as such, was simply a matter of crushing and screening, because the demand in those days was for "crudey" fibre. Later on, milled fibre was accepted but still only provided it was not excessively fiberized. In these circumstances, it was natural that aspiration was ineffective and all separation was done by screening, which, in itself, was far from efficient since crude fibre strands always tend to up-end and even the longest fibres might easily fall through screens of finest mesh.

Since this early vogue changed to complete fiberization it has been established that crocidolite when opened up to a fibrous mass, reacts perfectly to the sieving action, of the Quebec Machine, as it does to orthodox mill treatment and air classifica-

tion.

From these findings and recent experience, even the smallest undertaking should have no difficulty in classifying their milled asbestos into a number of different grades, depending on the average length and range of lengths of fibres available in the ore.

#### CANADIAN ASBESTOS



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ASBESTOS FIBRE DIVISION

Nicolet Avenue

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\*Suburb of New York City.

In larger and more up-to-date plants handling substantial tonnages, a wide range of mechanical appliances, designed to effectively carry out the essentials of cleaning, grading and blending are available. As an example, fiberizers are now used that open up the asbestos for grading without fibre degradation, and air classifiers for the separation of short fibre from grits and finally, the most modern machine consists of a combined cleaning and grading unit in one.

Individual grading in modern plants is not uncommon and many mines produce at least four distinct mill grades of superior quality that conform entirely to the specifications acceptable to their own factories. Unfortunately, such grading is not standardized among all producers nor is there any recognized common designation given the various grades. Each mine has its own

appellation.

It is manifest that "Blue" offered to manufacturers on the open market without uniformity in designation representative of standard grading and classification can only lead to confusion and dissatisfaction among manufacturers. In recent years many asbestos-product manufacturers have altered or discarded old processes and plant and developed new methods to produce modern technique. Indeed, to keep pace with latest practice each crocidolite grade should, not only conform to a set standard specification, but should be tested to fibre length and strength, microstructure and other physical and mechanical properties. In some cases moisture absorption, filterability and thermal conductivity are important factors. Quality control of each grade therefore is essential, more especially in those grades used in the processing of thermo-plastics and thermo-setting resins, and other modern techniques. In the same sphere, crocidolite is applied as a filler in various new plastic and paint products.

Even in the more common forms of utilization, such as spinning and weaving, or for chemically resistant packings, gas filters, insulation and as an additive to cement in the asbestoscement industry, the various grades required in each case must be rigidly checked to conform to the different application of each.

This is undoubtedly an opportune time to once again consider the matter of grading and universal classification. Indeed, it is an essential step to stabilize the positive of "Blue" on world markets. In South Africa, this class of fibre is recognized as possessing valuable qualities, but today, Australian Blue is making an appearance in world markets as a competitive product.

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This crocidolite, from the Hammersley Range, is of high quality and the resources of these deposits are extensive because of the relative regularity of mineral distribution. Their productive value is appreciated by the Government as is evident by the fact that

blue asbestos mining is State aided.

Fortunately in South Africa, domestic economy has not yet felt the impact of the world decline in prices for many primary products, but already there is a suggested trend towards a falling demand and also, a decrease in the value of asbestos exports due, not only to the lower level of world prices, but to an average 20% decrease of imports by manufacturing countries. As a result, there is every danger that in the months to come, crocidolite asbestos (especially ungraded fibre) may suffer at the hands of the selective buyer, or remain unsold, a serious state of affairs for the small producer.

How improved materials handling procedures have resulted when certain types of pneumatic equipment are arranged in selected combinations to supplement each other is discussed in a 12-page booklet offered by the Fuller Co., Catasauqua, Pa. The booklet is a reprint of a speech by Harry A. Markle, Jr., Chief Engineer of the Fuller Company, delivered at the 1958 Materials Handling Conference of the American Society of Mechanical Engineers.

For copies of "New Developments in Pneumatic Materials

Handling," write Fuller Co., Catasauqua, Pa.

"The Professional Touch," a pamphlet aimed at reducing the number of off-the-job traffic accidents to industrial employees, has been published by the National Safety Council.

The 12-page, multi-colored pamphlet says you can—and should—be as professional a driver as the men who drive trucks,

buses and taxicabs for a living.

Single copies of "The Professional Touch" and information on quantity prices may be obtained from the National Safety Council, 425 N. Michigan Ave., Chicago 11, Ill.

"Are You Safety Minded?" is a new publication of the National Safety Council.

The multi-colored pamphlet reports that most accidents are

caused by people—not unsafe work conditions.

Further information on "Are You Safety Minded?" and quantity prices may be obtained from the National Safety Council, 425 N. Michigan Ave., Chicago 11, Ill.

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#### J. C. KELLEHER RETIRES

Mr. J. C. Kelleher, Sales Manager of Canadian Johns-Manville Asbestos Fibre Division retired February 1, 1959, after

more than 41 years of service with the Company.

Mr. Kelleher was born in New York City in 1894 and attended school there. He pursued his education at New York University and The University of Pennsylvania. He served as an

ensign in the U.S. Navy in 1918.

In 1919, Mr. Kelleher joined Johns-Manville and started his career in the Production Department at the Manville Plant, New Jersey. In 1924 and 1925 he was Manager of the Asbestos, Quebec, Plant before returning to the Factory Department at the Manville Plant. In 1937, he was appointed to the position of Assistant to the Vice President for Production at General Head-quarters, and in 1938 he was made Assistant Commodity Manager of Asbestos Fibre. Since then he has specialized in asbestos fibre and in 1947 became Division Sales Manager.

Mr. Kelleher's dependability and aggressiveness through the years have contributed to bring about record sales of asbestos fibre. His great many friends in the Industry and at large wish him good health and happiness throughout the years ahead.

The seventh pamphlet presented by Johnson's Company, Ltd., Thetford Mines, Quebec, Canada, is intended to give an idea of the use that many Canadians make of the rivers and lakes, ranging from industry and transportation to sport. Fishing, swimming, water-skiing and many other activities are very popular in the parts of Canada that are well supplied with water.

#### A.S.T.M. STANDARDS

The first of 10 parts of the 1958 BOOK OF ASTM STANDARDS has recently been published by the Society. This will be followed by other parts as rapidly as editorial, press work and binding can be completed. The first part off the presses was Part 2 on Non-Ferrous Metals. This is to be followed shortly by Part 9 on Plastics, Electrical Insulation, Rubber, and Carbon Black; and Part 4 on Cement, Concrete, Mortars, Road Materials, Waterproofing, and Soils.

The complete set is priced at \$116.00. For further information write the American Society for Testing Materials, 1916 Race

Street, Philadelphia 3, Pa.



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#### ASBESTOS FIBRE DEPT.

500 Fifth Avenue

New York 36, N. Y.

"ASBESTOS" - February 1959

Page 19

# AUTOMATION AND HIGH SPEED IN ASBESTOS FIBRE SPINNING

A high speed Spinning Frame, named "ASBESTOS-SPINGARD" specially designed to spin and twist asbestos fibres coming from Section Cards, has now been developed and introduced successfully on the market by the Textile Machinery makers, Messrs. Adriano Gardella & F.llo of Genoa (Italy).

This "centripetal-spinning/centrifugal-winding" frame produces cross-wound conical Rolls weighing 1 kilo each.

Different pot-spindle's speeds from 5,000 to 6,500 r.p.m. are adapted on such a frame according to the quality of asbestos fibre (white or blue type) and according to the metric count of the sliver fed to the frame. Higher speed can also be adapted whenever the material used is of better quality.

The main feature of the Asbestos-Spingard is its very high speed and consequently the high production per pot-spindle and per worker. Furthermore the Spingard system of twist, which does not affect mechanically the yarn which is being spun, gives unknown before possibilities to the asbestos spinning. As a matter of fact, its smooth and light twisting allows to obtain yarns having a higher tensile strength in comparison with that obtainable on traditional spinning frames at the same twist.

Another very interesting feature is that the Asbestos-Spingard is fitted with a special fully Automatic Re-piecing Device which eliminates any man's action for the repiecing of the broken yarns so that the fibre sliver is continuously fed to and spun by the frame without any interruption. The delivery of the spun yarn rolls is effected by means of an oleo-pneumatic automatic system.

The following figures recorded during long and different tests are very interesting, particularly if compared with the figures from traditional machinery, i.e.:

/,	
English yarn sample—16 metre metres p. kilo) from original l	
Average tested twist	294 t.p.mt.
Average tested strength	0.973 kilos
Spingard yarn sample—16 metric	count from the
same English sliver:	
Average tested twist	251 t.p.mt.
Average tested strength	
Out-put per spindle-hour	
out per opinate nous	NICE / BILLOS

# A REVOLUTION IN A The ASBESTOR SPINGARD Spin

English yarn sample—8 metric count (800 metres p. kilo) from original English sliver: Average tested twist ......235 t.p.mt. Average tested strength ......2.493 kilos Spingard yarn sample-8 metric count from the same English sliver: Average tested twist ......200 t.p.mt. Average tested strength ......2.429 kilos Out-put per spindle hour ......2.100 kilos

Yarns obtained from the Asbestos-Spingard are also more regular in twist and strength.

Same advantages are obtainable from the high speed AS-BESTOS-TWISTGARD Twisting Frame, whose spindle's speed is 8,000 r.p.m. The twisted yarns obtained from such a frame have definitely a fine aspect, high tensile strength and are particularly soft.

A new folder just made available by Keasbey & Mattison Company, Ambler, Pa., gives up-to-the-minute information and technical data on SPRAYED "LIMPET" ASBESTOS, including results of its most recent fire tests.

Its application to metal beams and columns as well as to cellular steel floors is illustrated and fire ratings listed for each type of use. SPRAYED "LIMPET" ASBESTOS now offers protection from flames up to five hours depending upon the thickness of the blanket.

Copies may be obtained by writing to the manufacturer and

asking for Folder SL-8.

In its new Testing Laboratory at Aurora, Indiana, The Stedman Foundry and Machine Company, Inc. has installed fullsize production machines and automatic recording instruments to accurately determine H.P. requirements, speeds and capacities of various materials being tested. Screen analysis, and actual samples of product are furnished prospective customers.

Use of the new Stedman Testing Laboratory is open to readers of "ASBESTOS" without obligation or cost. For complete information, write, phone or wire Stedman Foundry and Machine Company, Aurora, Indiana, U.S.A. A form listing all

necessary details will be forwarded without obligation.

# You can cut fibre handling costs!



Shipment of Carey Asbestos Fibre and Shorts in pressurepacked paper bags offers the possibility of cost savings on:

- 1. Unloading cars.
- 2. Warehouse space.
- 3. No loss of fibre in bag.
  - Less freight charges on lower net weight paper bags vs jute bag.
- Fewer pallets.

Additional cost savings may also be accomplished by shipment of pressure-packed paper bags unitized-loaded on an expendable paperboard pallet. Carey-Canadian unitizes a 3500 lb. load on an expendable paperboard pallet permitting easy removal by fork lift truck from the freight car. 87% of the car can be unloaded in this manner, thereby saving many man hours.

Ask your Carey-Canadian Fibre Sales Engineer or write any of the addresses below for complete details:



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Carey-Canadian Mines, Ltd., East Broughton Sta. P.Q. The Philip Carey Co., Ltd., Ville St. Laurent, Montreal 9, P.Q. The Philip Carey Company, Lockland, Cincinnati 15, Ohio

#### THE TWELVE ESTIMATING TABLES

The Twelve Estimating Tables, with Chart, convenient in figuring flange fittings and other areas, is \$1.00 per set.

These tables have been found very useful by estimators in figuring areas, but since we have not for some time published the detailed list, it occurred to us that many would like to know exactly what the tables cover, and order them before the fall work begins. Following is the list.

Sq. Ft. Areas of Pipe Covering.

Mean Sq. Ft. Areas Standard Screwed Fittings.

Mean Area Standard Weight Flanged Fittings.

Standard Weight Flange Areas, Permanent Type.

Standard Weight Flange Areas, Removable Type.

Figuring Hair Felt, 1", 11/2", 2".

Anti-Frost Insulation.

Cork Pipe Covering, Outside Area in Sq. Ft.

Ice Water Thick Cork Moulded Fittings Screwed, Outside Area in Sq. Ft.

Brine Thickness Cork Moulded Fittings, Screwed, Outside Area in Sq. Ft.

Special Thickness Cork Moulded Fittings, Screwed, Outside Area in Sq. Ft.

Dusts and Flue Perimeters.

The chart gives an easy way to figure Curved Cylindrical Surfaces.

The tables are printed on paper which will wear well under handling. Orders can be filled immediately upon receipt, write Asbestos 807 Western Savings Fund Bldg., Philadelphia 7, Pa.

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CHRYSOTILE \* ANTHOPHYLLITE

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#### BOOK LIST

- Fhe Asbestos Factbook, 16 pages: Information in comment form on origin, facts, locations, uses of analyses, qualities, 25c per copy.
- Asbestos Mining Methods. By C. V. Smith. (Reprint) 16 pages 25c per copy.
- Milling Asbestos. By J. C. Kelleher. (Reprint) 16 pages. Companion article to Asbestos Mining Methods. Both should be in every Asbestos Library, 25c per copy.
- Recovery of Raw Asbestos. By Roland Starkey. (Reprint) 6 pages. Supplement to Milling Asbestos. 25c per copy.
- Canadian Chrysotlie Asbestos Classification. Including latest Quebec Testing Method. January 1, 1949 Edition. 4 pages 25c per copy.
- Processing Asbestos Fibres. 8 pages. (Reprint). 25c per copy
  Tests for Cotton Content. 4 pages (Reprint). Describing several
  methods of testing asbestos textile for cotton content. 10c
  per copy.
- Chart—Dollars Cost of Uninsulated Pipe. (Reprint), 20c each Brake Linings of Various Types. By R. T. Halstead, (Reprint) (12 pages) from August, September and October 1949 "ASBESTOS". Price 25c per copy.
- Twelve Estimating Tables, with Chart. Convenient in figuring flange fittings and other areas, \$1.00 per set.
- Manual of Unit Prices. For figuring pipe covering and blocks \$1.00 per single copy postpaid. Discount in quantities of 6 or more, postage billed.
- Order any of the above from "ASBESTOS," 807 Western Saving Fund Bidg., Philadelphia 7, Pa. Payment should accompany order

#### E. A. BELDAM PASSES AWAY

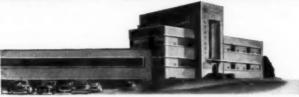
Mr. Ernest A. Beldam, son of the founder of Beldam Asbestos Company Limited, passed away on January 2nd at his home at Horsell, near Woking, England.

The eldest son of the late Robert Beldam, he first came to Hounslow in 1882, when his father purchased The Limes, now known as Lascar House, in the Staines Road, Hounslow.

In 1889, Robert Beldam founded the firm now known as Beldam Asbestos Company Limited, and he was joined by his eldest son, Ernest, in 1903 but a few months before his death.

Beldam Asbestos Company Limited manufacture a range of Specialty Engine Packings and Jointings—known throughout the world and particularly in marine circles—the trade name of which is Beldam's LASCAR. For many years Mr. Ernest A. Beldam was also a Director of the Canadian Company, Beldam Asbestos Packing Limited, of Toronto. The present Chairman and Managing Director of the Group of Companies is Mr. Ernest A. Beldam's eldest son, Robert G. Beldam.

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# ...FLINTKOTE Asbestos Fibres

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A wide variety of asbestos fibres now available for *your* use.

For further information and descriptive brochure – Write: The Flintkote Company, East Rutherford, New Jersey.

# FLINTKOTE MINES, LIMITED

(Subsidiary of The Flintkote Company) Thetford Mines, P. O., Canada



#### MARKET CONDITIONS

#### **GENERAL BUSINESS**

The general market situation continues good in most lines. Steel production continues to rise and automobile sales are well ahead of year ago levels. Auto production was lowered due to stoppage at Chrysler caused by a strike of their glass suppliers. Other producers however are operating at high levels. Home building continues at a satisfactory and improving level.

Possibly the most serious threat to the general picture for 1959 lies in the realm of finance. With some government bonds selling to yield 4% or better, funds normally available for mortgages and other types of financing may be diverted to the bond market and mortgage money rates could be expected to rise. This might well put the brake on new construction, both domestic and commercial, later this year.

Otherwise there is no obvious indication that the rosy predictions for 1959 will fail to come true.

#### ASBESTOS - RAW MATERIAL

Shipments of asbestos fibre for the month of January were fairly normal for this time of year with navigation at a standstill.

It would appear that shipments will be pretty well in line with the same month last year.

The industry is quite optimistic that 1959 asbestos fibre demand will exceed 1958 experience by roughly 5 to 10%.

#### ASBESTOS — MANUFACTURED GOODS

Asbestos Textiles. A recent pick up in government business indicates a slight increase over the past year. Gradual improvement is expected for 1959.

Asbestos Brake Lining. The market continues to look most promising. Sales for 1958 about 8% over 1957 which was an excellent year.

Asbestos Paper. Orders for this material have been rather slow and prices are competitive for that business which is available. It is expected that volume will increase during 1959. The Millboard market shows slight improvement in demand. As yet, no change in price.

High Pressure Insulation. Competition for this material is very strong among contractors and volume appears to be slightly

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better than last year. It is expected that a large increase will take place in the next 90 days.

Low Pressure Insulation. Volume for this product has fallen off due to the weather conditions and extreme competition exists for that business which is available. A decided increase in volume is expected during the coming months.

Asbestos Cement Products. There has been a steady increase in the use of Asbestos Products over the past several months. The situation at present is improved, and a continuation of the increase in use of Asbestos Siding for the rest of the year, with other items of flats, corrugated remaining the same.

For Roofing and Siding. Order placements during January were ahead of those for the same period in 1958. The outlook for the balance of the year is good.

A-C Pipes. The present market situation is satisfactory for this time of year. The outlook for the rest of the year appears to be optimistic.

The above comments have been made by various informed executives in the industry. All comments are welcome.

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In Canada



CAPE ASBESTOS (CANADA) LIMITED 200 Bloor Street East • Toronto, Ontario

Subsidiaries of The Cape Asbestos Company, Ltd., London



Canada (Department of Mines, Province of Quebec)	
Tons 2,000 lbs.  Production for November 1958 (Quebec) 102,94 Other Provinces	
Total production for November 1957 was 93,770 tons  Africa (Rhodesia) (Published by Rhodesia Chamber of Mines)	
Tons 2,000 lbs.         10,205.1           Production for September 1958         10,205.1           Valued at         £653,710           Production for September 1957         11,204.3           Valued at         £777,267           Imports of Asbestos by United Kingdom           Raw Materials	
Tons 2,240 lbs.	1958
From: Union of South Africa         2,56           Basutoland, Bechuanaland & Switzerland         8           Rhodesia & Nyasaland         3,2           Canada         6,5	01 58 97 28
13,7	15

#### THE UNION ASBESTOS AND RUBBER COMPANY New appointment

The Union Asbestos and Rubber Company, Bloomington, Illinois, has announced the appointment of Gerd M. Bloomfield as Packing Products Manager for the company's Fibrous Products Division.

Mr. Bloomfield has been with UNARCO for the past 18 years and has served in the company's quality control, specifications and research departments.

In his new position, he will direct expanded development, produc-

tion and distribution of UNARCO packing products.
CHARLES BERNARD LUNDIN PASSES AWAY
Charles Bernard Lundin, sales manager of the Dallas, Texas, district
of The Ruberoid Co., died at Dallas on January 20, 1959 after an illness of several months. He was 52 years old.

Mr. Lundin joined Ruberoid in 1937 as a sales representative in Louisiana and became manager of the Dallas district in 1946. Before coming to the company he had been a salesman for a building materials supplier and had worked as a loan officer for the Interstate Trust and Savings Bank of New Orleans for five years.

#### THE GARLOCK PACKING COMPANY

New appointments Several major changes in the management organization of The Garlock Packing Company of Palmyra, New York, were announced at the conclusion of a board of directors meeting held January 7, 1959. Chief among these changes was the election of Mr. Robert M. Waples to chairman of the board. He formerly served as president of the firm,

which is the world's largest manufacturer of packings, gaskets and seals. Waples succeeds George L. Abbott who is retiring as board chairman. Abbott will remain as a director and chairman of the executive committee.

A. J. McMullen, a vice-president, has been named president and principal executive and administrative officer of the company. Long associated with the packing industry, he served as president of the United States Gasket Company of Camden, New Jersey, from 1942. The company was acquired by Garlock in 1955 and he continued in that position. During 1955, he was elected a director and vice-president of the parent

Abbott joined Garlock in 1911 and subsequently became a director, general manager and vice-president. He was named president in 1928, and continued in that capacity until 1955 when he was elected chairman

and chief executive officer.

Waples started with Garlock in 1915 and in 1927 he was named manager of sales and service division at Palmyra. He was elected secretary in 1929, vice-president in 1948, executive vice-president in 1952, and president in 1955.

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Plants designed, equipped and financed.

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#### Exports from U.S.A.

(Figures by Bureau of Census)
Unmanufactured Asbestos:

	October 1958	
Tons	(2240 lbs.)	Value
To: Europe	165	\$21,776
Canada	19	1,500
Mexico	35	5,991
South America	21	4,310
United Kingdom	20	1,980
Other Countries	18	6,947
	278	\$42,504

#### Manufactured Ashestos:

3 N 1 ALL 1 N 7 E CL	2130e3103.			
		October 1958		
		Quantity	Va	lue
Asbestos	Cement & Pipe CoveringLbs.	693,486	\$ 12	0,666
Asbestos	Textiles & Yarn Lbs.	81,155	7	4,566
Asbestos	Packings Lbs.	132,918	19	2,557
Asbestos	Clutch Facings No.	136,452	9	8,561
Asb. Bk.	Lng. (Mld. & S. Mld.) Lin. Ft.	158,088	5	8,673
Asbestos	Brake Lining, Other Lbs.	319,165	28	5,368
Asbestos	Construction Materials Lbs.	1,904,979	19	9,352
Asbestos	Manufactures—Others	*********	8	0,001
		3,426,243	\$1,10	9,744

Exports from Canada
(Published by Dominion Bureau of Statistics)
Unmanufactured Asbestos:

	October, 1958 Tons			
	(2000 ]		Value	
United States	*****		*****	
United Kingdom	*****		*****	
South America	*****		*****	
Central America & Mexico	******		044001	
European Countries	13		13,535	
Other Countries	2		2,220	
	15	8	15,755	
Milled				
United States	13,126	\$2	\$2,331,822	
United Kingdom	3,899		826,206	
South America	1.496		273,829	
Central America & Mexico	1,322		210,604	

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Get the benefit of our double experience. Write to National Asbestos Mines, Ltd., Thetford Mines, P. Q., Canada. (Subsidiary of National Gypsum Company).



# a step ahead of tomorrow

European Countries	11,885 3,948	2	2,544,488 611,288
	35,676	\$6	,798,237
Shorts			
United States	44,319	\$2	.335,932
United Kingdom	4,486		221,765
South America	189		15,374
Central America & Mexico	2.014		93,115
European Countries	4,339		249,200
Other Countries	1,392		111,914
	56,739	\$3	,027,300
Grand Total-Unmanufactured Asbestos:	92,430	\$9	,841,292
Manufactured Asbestos Goods:			
Brake Lining		\$	40,136 1,077 830
		\$	42,043

#### KEASBEY & MATTISON CO. Changes in Personnel

Willard Davis has been named New Process & New Product Investigation in the Research & Development Department of Keasbey & Mattison Co., Ambler, Pa.

Mr. Davis, who holds a B.S. in Chemical Engineering from Northeastern University, Boston, was formerly associated with the Sun Oil Company of Philadelphia, as an operations research engineer in its

Marcus Hook refinery. George W. Lumpe has joined the Industrial Relations Department of Keasbey & Mattison Company. He will assist in the establishment of a formal job evaluation program, personnel policy development and

other related duties. Mr. Lumpe was formerly with Minneapolis-Honeywell, Philadelphia, as employee benefits manager.

#### EXECUTIVE CHANGES AT KEASBEY & MATTISON CO.

Keasbey & Mattison Company has announced the following execu-

tive changes which became effective January 1st, 1959.

D. W. Widmayer, Vice President and member of the Board of Directors, moves from Director of Sales to Marketing Consultant, in which capacity he will be concerned with market development for K&M's expanding line of consumer and industrial products.

Norman L. Barr, formerly General Sales Manager of the company's Asbestos-Cement Pipe Division, becomes General Sales Manager of K&M's Sales Division. A graduate of Bowdoin College, he joined the

Company in 1948.

James R. Reichel has been appointed General Sales Manager of K&M's San Francisco District Office. Mr. Reichel graduated from Palo Alto High School and attended San Mateo College.

# DURASORB FELTS



Their special needled construction permits the water to drain faster, even at higher speeds. This is the result of years of research by experienced Designers, to bring you a new type of felt — DURASORB — offering maximum water removal while retaining all the other characteristics for long life, finish, stability and uniformity.

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# ALBANY

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Other plants: Hoosick Falls, N. Y., N. Monmouth, Me.
St. Stephens, S. C., Cowansville, P.Q.

#### **JOHNS-MANVILLE EARNINGS 1958**

Johns-Manville earnings in 1958 improved despite a small dip in sales volume, A. R. Fisher, Chairman and President, announced on January 27, 1959 in issuing the audited figures for the year.

Net earnings in 1958 were \$21,942,000 or \$3.06 per share of common stock on an average of 7,170,774 shares outstanding. In 1957 earnings were \$17,782,000 or \$2.48 per share on an average of 7,155,427 shares.

Sales were \$304,137,000 in 1958, compared with \$308,293,000 in 1957.

"Earnings showed steady improvement during the last three quarters," Mr. Fisher said. "The increase over 1957 reflects our companywide program to reduce the cost of doing business. The company is also feeling the benefits in part from new plants which are coming into production."

Before taxes of all kinds Johns-Manville earnings in 1958 were \$44,388,000 which was \$8,062,000 more than in 1957.

Dividends paid in 1958 totalled \$14,345,000 or \$2.00 per share, compared with \$14,313,000 or \$2.00 per share in 1957.

All taxes in 1958 amounted to \$22,446,000, of which \$15,150,000 were levied on United States and Canadian income. In 1957 taxes were \$18,544,000 including \$11,600,000 levied on income.

The payroll in 1958 was \$123,269,000, compared with \$127,288-000 in 1957. Wage increases in United States and Canadian plants and mines during 1958 averaged 8.0 cents per hour, or 4.0 percent.

Depreciation and depletion in 1958 were \$14,425,000 a decrease of \$71,000 as compared to 1957.

Expenditures for additions to and improvements and replacements of Johns-Manville properties amounted to \$10,511,000 in 1958, compared with \$45,704,000 in 1957.

It is anticipated that capital expenditures in 1959 will amount to approximately \$20,000,000.

The above figures exclude L.O.F. Glass Fibers Company, the assets and business of which were acquired on December 31, 1958 by Johns-Manville Fiber Glass Inc., a wholly owned subsidiary. The basis of the acquisition was the exchange of one share of Johns-Manville's common stock for each two and one-half shares of L.O.F. Glass Fibers.

Combined net earnings of Johns-Manville and L.O.F. Glass Fibers in 1958 were \$23,374,000, amounting to \$2.83 per share of common stock on an average of 8,255,117 shares outstanding. Combined sales were \$331,743,000.

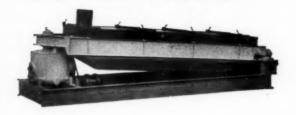
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## NEWS OF THE INDUSTRY

HAPPY BIRTHDAY

C. J. Sherer, Vice President & Treasurer, Russell Mfg. Co., Middletown, Conn., February 18.

I. J. Harvey, Jr., Chairman of the Board & Chief Executive Officer, The Flintkote Company, New York City, February

Clarence E. Witherspoon, President, Asbestos Construction Com-

pany, Inc., New York City, February 20. Robert Sanderson, President, Acme Asbestos Ltd., Vancouver. Canada, February 21.

George W. Smith, President, Bell Asbestos Mines Ltd., Thetford Mines, Canada, February 22.

Robert E. Cryor, President, North America Asbestos Co.. Chicago, Ill., February 23.
R. D. Williams, Vice President, Lake Asbestos of Quebec, Ltd.,

New York City, February 24. J. Albert Taylor, Vice President & Secretary, Wallace & Gale Co., Baltimore, Md., February 24.

Warren E. Hill, Vice President & General Manager, H. K. Porter Co., Inc., Thermoid Division, Trenton, N. J., February

A. S. Johnson, President, Johnson's Co., Ltd., Thetford Mines, Canada, February 28. Leonard Krez, President & Treasurer, Paul J. Krez Co., Chicago

Ill., February 28. A. S. P. Sangster, General Works Manager, Wunderlich Limited, Sydney, Australia, March 2.

John H. Matthews, Executive Vice President, Raybestos-Manhattan, Inc., Passaic, N. J., March 3.

A. E. Binger, Industrial Sales Mgr., The Philip Carey Mfg. Co.,

Cincinnati, Ohio, March 6. Carl Bindman, Sales Manager, Johnson's Company, Ltd., Thet-

ford Mines, Canada, March 7.

M. E. Curtis, President & Treasurer, Curtis Asbestos Co., Boston, Mass., March 7. William G. Brinker, President, The Clark Asbestos Co., Cleve-

land Ohio, March 8.
T. J. Callans, Vice President & Treasurer, Southern Insulation

Corp., Memphis, Tenn., March 8. P. M. Taft, President, Taft-Jenkins Company, Holyoke, Mass.,

Thomas J. Casey, Treasurer, Asbestos Corporation of America.

March 9.

New York City, March 10. W. L. Markert, President, Brooks-Fisher Insulating Co., Atlanta, Ga., March 10.

M. R. Carr, President, H. W. Porter & Co., Inc., Newark, N. J., March 11.

A. Lines, Superintendent, Durabestos Works, Wunderlich Limit-

ed, Parramatta, Australia, March 11.

James E. Wallace, Vice President, John W. Wallace & Co.,

Hoboken, N. J., March 11.

Theodore D. Wallace, Secretary & Treasurer, John W. Wallace

& Co., Hoboken, N. J., March 11.

To all these gentlemen we extend our best wishes and congratulations on the occasion of their birthdays.

#### CAPE ASBESTOS (CANADA) Ltd.

New Appointment

Mr. Robert E. Cryor, President of North American Asbestos Corporation of Chicago, American subsidiary of The Cape Asbestos Company Ltd., has been elected President of Cape Asbestos (Canada) Ltd. of Toronto, and Caposite Insulations Ltd. of Sarnia, Canadian subsidiaries of Cape Asbestos.

This election follows the death of Mr. L. W. Dennis, first President

of Cape Asbestos (Canada), last summer.

#### THE FLINTKOTE COMPANY

New appointment

Mr. Jack H. VanAllen has been appointed salesman for the Tile-Tex and Industrial-Atlas Divisions of The Flintkote Company in the Western Sales Territory, it has been announced by Mr. W. Leon Harper, General Sales Manager, Industrial Products Divisions.

Mr. VanAllen's sales area will cover the entire states of Minnesota, North and South Dakota and portions of Montana, Wisconsin and

Wyoming. His headquarters will be Wayzata, Minnesota,

#### THE RUBEROID CO.

New appointment

Mr. E. J. O'Leary, president of The Ruberoid Co., announced that Mr. Richard N. Funkhouser of Hagerstown, Maryland has been elected a

vice president of the company.

Mr. Funkhouser had been a vice president and assistant treasurer of The Funkhouser Company, a producer of roofing granules, inert chemical fillers and high-purity mica, the assets and business of which Ruberoid acquired at the end of 1958. He was also vice president of R. J. Funkhouser and Company, Inc., an affiliated company involved in the acquisition. In his new capacity he will be General Manager of the newly formed Funkhouser Mills, Division of The Ruberoid Co.

#### FOUNDERS IN GREY IRON AND CHILLED CASTINGS BRONZE-ALUMINUM

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LA FONDERIE DE THETFORD Thetford Mines, P.Q., Canada

#### THE FLINTKOTE COMPANY

Howard E. Walker has become associated with the Research Department of The Flintkote Company to work on special assignment with

the Insulrock Division.

Mr. Walker, who has had an extensive industrial research background, will report and be responsible to Mr. Pecaro, President. He served as Director of Operations for the Tectum Corporation where he was responsible for manufacturing, quality control and research from 1950 until the current appointment.

#### NEW VICE PRESIDENT FOR J-M

Roger Hackney is the new Vice President for Finance of Johns-Manville Corporation, and has been elected to the Board of Directors. Joseph L. Wood succeeds Mr. Hackney as Treasurer.

Both appointments were announced following the retirement of Alvin Brown, who had served as Vice President for Finance since 1946.

Mr. Hackney began his career with Johns-Manville as Assistant Treasurer in 1941, prior to which he had been associated with Eastman Dillon & Co., W. L. Allen, and Forster Marvin & Co. He was named Treasurer of Johns-Manville in 1942 and was appointed in 1946 as Assistant to the Vice President for Finance.

Mr. Wood, prior to joining Johns-Manville in 1927 as General Credit Manager, was associated with the Ajax Rubber Company of New York and Racine, Wisconsin, as Assistant General Credit Manager.

CABLE ADDRESS: METABEST

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FILTRATION FIBRE

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#### **LOW-IRON CHRYSOTILE**

A dependable foreign source offering low-iron short and medium length chrysotile asbestos fibre.

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### **RAW ASBESTOS**

ALL GRADES-ALL TYPES

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VOLKSKAS BLDG. - 76 MARKET STREET

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- order any quantity of any item -

ASBESTOS TAPES:  $3\frac{1}{2}$ " x  $\frac{1}{6}$ " com't grade, no wire, 30' rolls, 4,000# available @ 50¢ per pound. 2" x  $\frac{1}{4}$ " com't grade, no wire, 1500# @ 45¢ per pound.

ASBESTOS ROPES: 1/4" Raybestos braid over twisted rope, 50# reels, 1,000 # available @ 89¢ per pound.

3/4" Blue Square braided rope, 50# reels, 500# @ \$1.10 lb.

74 blue square braided rope, 30.47 rees), 30.47 € \$1.10 b.

ASBESTOS BRAIDED TUBING: Johns Manville, 21/4" ID, 1/16" wall, grade AA,
50.47 reels, 1,500.47 € 70.5 per ib.

JM, 15/8" ID, same as above, 200.47 € 80.5 lb.

FIBERGLASS LAGGING TAPE:  $4" \times .007" \times 200'$  rolls, large stock @ 50% off list.  $21_2" \times .005" \times 36$  yd. roll, large stock @ 50% off list.

ALSO AVAILABLE: Many smaller lots of asbestos and glass tapes, phenolic sheet, rod and tube and various types of packing. Write for our low, low prices.

TERMS: Net 10 days to rated accounts, fob our Hicksville warehouse. P.S.: We pay cash for your close-outs of asbestos or glass textiles.

#### THE IRBI COMPANY

phone: WELLS 5-6600

100 Duffy Avenue

Hicksville, New York

#### 114-FOOT AUTOCLAVE TO BOOST EHRET INSULATION CAPACITY

Delaware Valley's industrial kitchen got a giant pressure cooker. The mammoth steam autoclave, technically classified as an indurator, was delivered to Ehret Magnesia Manufacturing Company, Valley Forge, Pa., for the production of high temperature insulation. A second indurator of the same size will be shipped to Ehret within the next couple of weeks.

Spanning 114 feet in length with an inside diameter of 7 feet, the 70-ton indurator arrived by rail from the Newport, Del. plant of Allied Steel Products Corporation which fabricated the equipment. The unit was then trucked overland through Valley Forge State Park to the Ehret plant site where it, along with its companion, will become a part of an automatic process system designed and now being installed by The Kuljian Corporation, engineers and constructors, of Philadelphia.

#### ROCKBESTOS PRODUCTS CORPORATION

New appointment

Mr. Alfred H. Macgillivray has been appointed production manager for Rockbestos Products Corporation, manufacturers of electrical wires and cables, of New Haven, Conn., it was announced by Mr. Albert S. Pedwar, Pockhesto periodes.

Redway, Rockbestos president.

Macgillivray has been superintendent of the Central Falls, R. I. Plant of Collyer Insulated Wire Company for the past ten years. He has been with the Collyer organization for eighteen years, joining it in 1940 after a short time with Whitin Machine Works in Whitinsville, Mass.

A comprehensive new book, THE SELECTION OF RETAIL LOCATIONS, offers the first authoritative study of site selection and business volume estimating for establishments selling consumer goods or services. Written by a leading real estate economist, Richard L. Nelson, the 422-page book was published by F. W. Dodge Corporation, New York.

THE SELECTION OF RETAIL LOCATIONS, by Richard L. Nelson, price is \$9.00. For further information contact A. L. Bronaugh, Publicity Director, Dodge Books, F. W. Dodge Corporation, 119 W. 40th Street, New York 18, N. Y.

#### **CHARLES GOUZEE et Cie**

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Importers-exporters of raw Asbestos since 1935

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World Wide Distributors of Finest Quality

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Chrysotile
Crocidolite
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Amosite

Sole Selling Agents for

Fibres

STOLTZBURG and BARBERTON MINES

Transreef House 66 Marshall Street

> Johannesburg South Africa

P.O. Box 8798 Johannesburg

Cables: Montexport Johannesburg

#### **PATENTS**

Abstracts of U. S. Patents on Asbestos and Asbestos Products by Oliver S. North.

Copies of patents can be obtained by sending 25 cents (in coin) to The Commissioner of Patents, Washington 25, D.C., giving patent, date it was issued, name of patentee and name of invention.

Process For Shaping in a Mold a Moldable Material in the Form of Hollow Bodies of Non-Uniform Cross Section, by Employing an Inflatable Inner Bag and Yielding Elements Placed on Said Inner Bag, No. 2,865,079. Granted on December 23, 1958, to G. Marchioli and G. Gremigni. Process for making asbestos-cement piping joints by shaping them in rigid molds having inflatable rubber cores capable of assuming, under pressure, the required shape.

Beater Saturated Sheets Having Increased Strength, No. 2,868,641.
Granted on January 13, 1959 to D. A. Feigley, Jr., (assignor to Armstrong Cork Co., Lancaster, Pa.). Process for preparing beater saturated sheet materials, for example asbestos sheet, in which the rubber content of the latex is deposited on the fibre while the fibre is in an aqueous suspension. The tensile strength of sheet so formed is higher than when it is formed by conventional paper-making beater saturated

processes.

#### ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial & Financial Chronicle. No guarantee as to their correctness.)

ontonice. The guntance as to their to	January 1959			
	Par	Low	High	Last
Amer. Br. Shoe (Com)	np	37	373/4	37
Armst. Ck. (Com)	1	37	377/8	371/8
Armst. Ck. (Pfd)	np	83	841/2	83
Asbestos Corp	np	33	361/4	35
Carey (Com)	10	461/2	511/2	471/2
Cassiar Asb. Corp.	np	\$9.00	\$9.40	\$9.40
Celotex (Com)	1	381/4	40	383/4
Celotex (Pfd)	20	183/4	191/2	183/4
Certainteed (Com)	1	14	157/8	151/8
Fibreboard (Com)	np	47	491/2	471/2
Fibreboard (Pfd)	100	157	166	160
Flintkote (Com)	5	563/8	571/2	571/8
Flintkote (Pfd)	np	108	1091/2	1091/4
J-M (Com)	5	511/2	53 1/8	531/2
Natl. Gypsum (Com)	1	611/8	633/4	631/8
Natl. Gypsum (Pfd)	np	96	96	96
Porter & Co. H.K.	1	881/2	887/8	883/4
R-M (Com)	1	591/2	60	60
Ruberoid (Com)	1	401/8	415/8	411/2
Unarco (Com)	5	101/4	11	105/8
United Asb. (Com)	1	\$6.60	\$7.50	\$6.75
U.S. Gypsum (Com)	4	991/2	1091/2	1091/2
U.S. Gypsum (Pfd)	100	160	160	160
U.S. Rubber (Com)	5	473/4	501/8	491/2
U.S. Rubber (Pfd)	100	151	1521/4	152

# BELL ASBESTOS MINES LTD.

THETFORD MINES, QUE.
CANADA



Producers of

Raw Asbestos Crudes

& Fibres



Sales Representatives

for

Cassiar Asbestos Corporation Limited

#### **AUTOMOBILE SALES**

		November 1958
Passenger C	Cars	511,885
Motor Truc	ks	89,408
Motor Coac	hes	167
		601,460

In November 1957, a total of 678,598 motor vehicles were sold. In the eleven months of 1958 the total was 4,422,257.

These figures were supplied by the Automobile Manufacturers Association, New Center Building, Detroit, Michigan.

## CASSIAR ASBESTOS CORPORATION LIMITED Seventh Annual Report

The seventh Annual Report, dated September 30, 1958, of the Cassiar Asbestos Corporation Limited (of Toronto, Ont., Canada) has been received from F. M. Connell, President.

During the year the company earned a net profit of \$2,897,473 or 76c a share, compared with \$2,811,295 in the preceeding year.

A total of 389,232 tons of ore were milled, compared with 382,186

tons in the previous year.

At the mine, work on the new bottom adit at 5,700 ft. has indicated possibility of large additions to ore reserves. Grade is comparable to the upper levels, where about eight million tons are available for the first stage of open-pit operations.

#### THE FLINTKOTE COMPANY

Changes in Personnel

R. J. Mulligan has been promoted to assistant general sales manager

of The Flintkote Company's Special Products Division.

Mr. Mulligan has been with Flintkote since 1946 when he joined the company as a salesman covering the northwestern district in upper Michigan and Wisconsin and later, the central district of northeastern Michigan. In 1936 he was named Product Manager, for Insulrock. Two years later he was promoted to sales manager for this Division.

Edward W. Douglass has been named general sales manager of the

Insulrock Division.

Mr. Douglass, who will supervise and manage the sales organization of the Insulrock Division and the distribution of the Insulrock product, was formerly associated with the Tectum Corporation as Director of Marketing.

# Antony Gibbs & Co., Inc.

61 Broadway New York 6, New York Tel. Digby 4-6580



View of Kuruman Main Mill

# **ASBESTOS FIBRES**

Chrysotiles, Blues, Amosites

Agent in the United States for

S. A. ASBESTOS TRADING (PTY.) LTD.

Now in Operation: New Independent Source of Asbestos. Lake Asbestos of Quebec, Ltd. will supply 100,000 tons of high-quality chrysotile asbestos fibre annually. If you need a new dependable source for high grade asbestos, write to Lake Asbestos of Quebec, Ltd., 120 Broadway, N.Y. 5, N.Y.

#### North American Sales Agents:

A. C. Mueller Co., Inc. Cleveland 14, Ohio

Baker & Collinson Detroit 12 Michigan E. M. Walls Company San Francisco 11 California

Van Horn, Metz & Co., Inc. Conshohocken Pennsylvania

E. B. Taylor Company Los Angeles 13 California

D. H. Litter Co., Inc. New York and Allston, (Boston) Mass. Federated Metals Houston 29 Texas

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ENGINEERED TO YOUR REQUIREMENTS

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FIRST IN AUGUST . SIDET IN SERVICE SINCE 1878

F. C. Huyck & Sons,

Rensselger, N. Y.; Aliceville, Ala.; Peterborough, N. H.

In Canada: Kenwood Mills Ltd., Arnprior, Ontario

## CANADA'S MINERAL PRODUCTION Preliminary Report

Although the value of minerals produced in Canada during 1958 exceeded 2 billion dollars it did not reach the peak established in 1957, according to a preliminary estimate prepared by the Dominion Bureau of Statistics at Ottawa. The decline was about 3 per cent. Asbestos shipments were down by \$7 million.

Non-metallic minerals decreased in value to \$158 million in 1958 compared with \$169 million in 1957. Although there were some new producers of asbestos the total quantity of asbestos shipped was 100,000

tons less than in 1957.

#### CURRENT RANGE OF PRICE

As of Feruary 10, 1959

ARIZONA-	Per Ton of 2,000 lbs.,	f.o.b Glo	be,	Arizona
No. 1 Crude	(soft)	\$1,500.00	to s	\$2,000.00
No. 2 Crude	(soft)	1,000.00	to	1,350.00
No. 3 Crude	(soft)	400.00	to	675.00
Filter Fibre	(soft)	250.00	to	475.00
No. 1 Crude	(semi-soft)	1,200.00	to	1,500.00
No. 2 Crude	(semi-soft)	900.00		
No. 3 Crude	(semi-soft)	400.00		
CANADA-	Per Ton 2 Canad	,000 lbs. dian Curi		
Group No. 1	(Crude No. 1)	\$1,475.00	to \$	1,850.00
Group No. 2	(Crude No. 2); Crude			
	Run-of-Mine and Sundry	790.00	to	1,200.00
Group No. 3	(Spinning Fibre)	370.00	to	650.00
Group No. 4	(Shingle Fibre)	180.00	to	245.00
Group No. 5	(Paper)	120.00	to	150.00
Group No. 6	(Waste, Stucco or Plaster)			86.00
Group No. 7	(Refuse or Shorts)	40.00	to	80.00
VERMONT-	-Per ton of 2000 lbs. f.o.b. Hyde	Park or	Mor	risville,
Group No. 3	(Spinning & Fitlering	\$ 370.00	to \$	428.00
Group No. 4	(Shingle Fibre)	181.00	to	200.00
Group No. 5	(Paper Fibre)	120.00	to	152.00
	(Waste, Stucco or Plaster)			86.00
Group No. 7	(Refuse or Shorts)	41.00	to	75.00

### RAW ASBESTOS DISTRIBUTORS

LIMITED

FOR CANADIAN, RHODESIAN AND SOUTH AFRICAN ASBESTOS

ASBESTOS HOUSE • 77-79 FOUNTAIN ST. • MANCHESTER 2 E N G L A N D THE RUBEROID CO. Changes in Personnel

The Ruberoid Co. has announced the promotion of three men to

high posts in the company's sales department.

Rhys L. Stanger, sales manager of the St. Louis, Missouri, district, has been appointed manager of asphalt and asbestos products sales. Charles L. Haugh, assistant sales manager of the New York sales district, has been made sales manager at St. Louis, and George J. Garthwaite has become assistant sales manager of the New York district.

Mr. Stanger joined Ruberoid as a sales representative in 1950 and became sales manager at St. Louis in 1956. Previously he was sales representative for Eastman Dillon & Co., and The American Optical Co. In his new position he will make his headquarters at the company's

executive offices in New York City.

Charles L. Haugh, a sales representative since 1947, joined Ruberoid in 1955 and became assistant sales manager of the New York

district in 1956.

George J. Garthwaite has been a sales representative in New Jersey and the Philadelphia area since 1952. He began work for Ruberoid as an office boy in 1938 and worked his way up through the sales department.

SCANDINAVIA BELTING COMPANY

Scandinavia Belting Company, manufacturers of conveyor belting and automotive and industrial brake lining, announces the election of C. Brown Whitley as General Manager, Treasurer and Director, who will make his headquarters in the company's plant in Charlotte, N.C.

Mr. Whitley, who has been with the company since 1933, succeeds Vincent A. Spina, who resigns from active management for reasons of health, after 38 years service with the company. Mr. Spina remains in

an advisory capacity and as a Director.

By May 1st, the company expects to transfer its general offices from Newark, N.J. to a newly constructed company office building in Charlotte, N.C. Local service will be maintained from the company warehouse at

250 Central Avenue, Newark, N.J.

In recent years, Scandinavia introduced new fire-resistant conveyor belting, SCANDURA, which has acceptance designation U.S.B.M. #28-1, that has made an important impact in the coal mining industry and other heavy industries with conveyor belting problems. NATIONAL GYPSUM CO. TO ACQUIRE HURON PORTLAND CEMENT CO.

National Gypsum Company disclosed that the Company is nego-

tiating to acquire the Huron Portland Cement Co.

Directors of both companies have agreed on a basis for exchanging shares of stock under which the cement company eventually would become a wholly-owned National Gypsum Company subsidiary. National Gypsum will exchange 1,014,300 shares of common stock for all shares of Huron Portland Cement Co. stock, the equivalent of seven tenths of a share of National for each share of Huron.

Huron Cement is believed to have the largest cement plant in the world at Alpena, Mich. It has a fleet of lake vessels and 12 distributing

plants on the Great Lakes including one in Buffalo.

Acquisition of the cement company will take National Gypsum into a new and closely related industry. National now manufactures some 250 products-mostly for use in home building.



Drastic reduction of heat loss with

#### PABCO PRECISION-MOLDED CALTEMP

a Calcium Silicate Insulation

When vapors or liquids are conveyed or held at temperatures up to 1900° F.—when equipment is operated to high heat levels—Pabco insulations cut heat losses to absolute minimums.

"Precision-Molded" by a patented process, Pabco's Caltemp and 85% Magnesia pipe and block insulations control temperatures within close tolerances. For data on technical advantages, case histories, or engineering consultation, write... or call a Pabco insulation engineer.

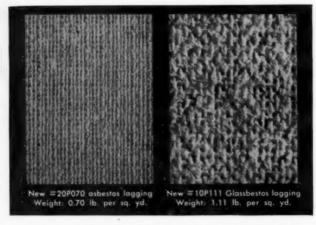
#### INSULATION GUIDE

PA	B	C	C
INDUSTRIAL	INSULATI	ONS DIV	SION
			400

Fibreboard Paper Products Corporation San Francisco 19 • Chicago 54 Houston 4 • New York 16 • Los Angeles

Temperature	Recommended Pabco Insulation
to 550° F.	85% Magnesia pipe covering • block • cement
to 1200° F.	Caltemp pipe covering - block - cement
to 1500° F.	Prasco 15 C pipe covering • block • cement
to 1900° F.	Prasco 19 C block





# NEW, LOWER-COST R/M ASBESTOS AND *Glassbestos* LAGGING CLOTHS SAVE WEIGHT ON SHIPBOARD

Look for new profits by using the new R/M lagging cloths for shipboard application. Type #20P070 has only half the weight of standard Navy Class 5 lagging cloth and provides a 29% cost saving. Type 10P111 Glassbestos provides a cost and weight saving of more than 20% as compared with the standard 1.40 lb. Class 5 lagging cloth. Suitable for steam generating plants, too. Write now for full information and samples.



# RAYBESTOS - MANHATTAN, INC. ASBESTOS TEXTILE DIVISION, Manheim, Pa.

FACTORIES: No. Charleston, S.C.; Manheim, Pa.; Bridgeport, Conn.; Paramount, Calif.; Passaic, N.J.; Neenah, Wis.; Crawfordsville, Ind.; Peterborough, Ontario, Canada

RAYBESTOS-MANHAITAN, INC., Asbestos Textiles • Laundry Pads and Covers • Mechanical Packings • Brake Linings • Brake Blocks Clutch Facings • Rubber Covered Equipment • Industrial Rubber Engineered Plastics • Sintered Metal Products • Industrial Adhesives Abrasive and Diamond Wheels • Bowling Balls

# SOUTHERN ASB ESTOS — TEXTILES



SOUTHERN ASBESTOS COMPANY, CHARLOTTE 1, N. C.

